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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/749,893	12/29/2000	Robert Palifka	09991-014001	6685	
26171 FIGU & DICH	7590 01/04/2007		EXAMINER		
FISH & RICHA P.O. BOX 102	2	•	NGHIEM, MICHAEL P		
MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER	
		•	2863		
SHORTENED STATUTOR	RY PERIOD OF RESPONSE	MAIL DATE	DELIVER	DELIVERY MODE	
3 MC	NTHS	01/04/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

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	Application No.	Applicant(s)	
	09/749,893	PALIFKA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Michael P. Nghiem	2863	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY	Y IS SET TO EXPIRE 3 MONTH	(S) OR THIRTY (30) DAYS.	

	Michael P. Nghiem	2863					
The MAILING DATE of this communication appe	ears on the cover sheet with the c	orrespondence address					
Period for Reply							
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period with Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	TE OF THIS COMMUNICATION 5(a). In no event, however, may a reply be timed apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONE	I. lely filed the mailing date of this communicati D (35 U.S.C. § 133).					
Status							
4) NA Becommiss to communication(s) filed on 21 So	ntombor 2006						
1) Responsive to communication(s) filed on <u>21 Se</u>							
· — · · · · · · · · · · · · · · · · · ·							
,	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
closed in accordance with the practice under Ex	k paπe Quayie, 1935 C.D. 11, 45	03 O.G. 213.					
Disposition of Claims							
4) Claim(s) See Continuation Sheet is/are pending	in the application.						
4a) Of the above claim(s) is/are withdraw	•						
5) Claim(s) is/are allowed.							
6) Claim(s) <u>29-33, 35, 36, 38, 39, 41-45, 48, 50-52, 54-</u>	58,60,61,63-76,78,80-99,102,10	<u>04 and 105</u> is/are rejected					
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	election requirement.						
	·						
Application Papers							
9) The specification is objected to by the Examiner	· •						
10) The drawing(s) filed on is/are: a) acce	pted or b) objected to by the	Examiner.					
Applicant may not request that any objection to the o							
Replacement drawing sheet(s) including the correcti			l (d).				
11) The oath or declaration is objected to by the Exa							
Priority under 35 U.S.C. § 119	•						
		\ (d) or (f)					
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(a) or (i).	•				
a) ☐ All b) ☐ Some * c) ☐ None of:	have been madized						
1. Certified copies of the priority documents		an Na					
2. Certified copies of the priority documents							
3. Copies of the certified copies of the prior		ed in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of	of the certified copies not receive	ed.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D						
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal F 6) Other:	ratent Application					
S Patent and Trademark Office							

Continuation of Disposition of Claims: Claims pending in the application are 29-33,35,36,38,39,41-45,48,50-52,54-58,60,61,63-76,78,80-99,102,104 and 105.

Application/Control Number: 09/749,893

Art Unit: 2863

DETAILED ACTION

The Amendment filed on September 21, 2006 has been acknowledged.

Claim Objections

Claim 79 is objected to because of the following informalities: Cancelled claim 79 cannot contain any text. Appropriate correction is required.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 29-33, 35, 36, 38, 39, 41-45, 48, 50-52, 54-58, 60, 61, 63-76, 78-99, 102, 104, and 105 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Claims 29, 44, 45, 52, 102, and 104, it is unclear how the thermoplastic bonding component being bonded to the surface of piezoelectric element can also include a filter

and function as one. Fig. 3 shows the thermoplastic bonding component (90) to be bonded to a surface of a piezoelectric element (34, 34'). However, since the thermoplastic bonding component is bonded to the surface, it is not possible for it to function as a filter since the bonded surface of piezoelectric element would prevent the flow of fluid to flow to the other side (bonded side) of the thermoplastic filter (Fig. 3).

Response to Arguments

Applicant's arguments have been considered but are moot in view of the new ground(s) of rejection.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Nghiem whose telephone number is (571) 272-2277. The examiner can normally be reached on M-H.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Barlow can be reached on (571) 272-2269. The fax phone number for the organization where this application or proceeding is assigned is (571) 273-8300.

Art Unit: 2863

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MICHAEL NGHIGM PRIMARY EXAMINES

Michael Nghiem

December 19, 2006